## The Status of the Genus Rhinopsis, with Description of a New Species from Texas (Hymen.: Ampulicidae).

By J. Chester liradele: Cornell University, Ithaca, New York.

Rhinopsis was funnded by $W^{\top}$ estwood for his species abhottio which is a symonym of canaliculata. Juthors have usually looked upon its sole distinguishing character as being the absence of the first transverse cubital vein, and since this vein is not constantly present in some species of Ampulc.r, and also since some of the forms that lack it do not seem to be closely related in other respects to others, there has been a tendency to consider Rhinopsis an munatural group, which should not be recognized even as a subgentus.

Authors seem to have overlooked a character which the type of Rhinopsis shares with all of the known new work species that possess only two sulmarginal cells, namety that the first section of the subdiseoidal vein ( $m$ of the Comstock-Needham terminology $y^{-}$is continuous with the second recurrent, there being no trace of a second section of the subdiscoidal (longitudinal $M_{2}$ of (omstock and Needham). The continuous sul)discoidal and second recurrent veins enclose an elongate third discoidal cell which is grathally narrowed toward the apex and there more suddenly terminated by the upeurving second recurrent.

This character I have observed in canaliculata Say, in formginea, n. sp.. in trigonopsis Smith, and it is shown by the figure of maculicornis Cameron in the Biologia Centrali Americani to ohtain in that species. There are no other new worke species known to have only two submarginal cells.

In all of the other Ampules that I have seen, new or ohd Workd species with three submarginal cells, or old world species with two. including the European fusciutu Jurine, the seconcl section of the subdiscoidal vein is present, the first meets the second recurrent at an angle, and the third discoidal cell is not gradually narrowed but terminated by the more or less rectangular second discoidal vein.

It therefore seems that our American species allied to canaliculata form a matural group which may be properly accorded at least subgeneric rank.

## Key to Subgenera of Ampulex

Subdiscoidal and second recurrent veins of fore wing continuous, not meeting at an angle, the apical section of the former vein wanting. First transverse cubital vein wanting. Color black or ferruginous, never strongly metallic. Neotropical and Nearctic Regions, Rhinopsis Westwood.
Subdiscoidal and second recurrent veins not continuous, the latter inserted at an angle on the former, which it divides into a basal section and an apical section. Two or three submarginal cells. Colors usually, but not always strongly metallic. Old and new worlds. ....Ampulex Jurine.
Specimens of the only known nearctic species of Ampulex are looked upon as such rarities that the discovery of a second form is of considerable interest. The form hereunder described is very closely related to $A$. canaliculatus Say, and differs chiefly in being, except for the abdomen, entirely yellowish ferruginous, instead of black. Structurally it differs from a specimen of A. canaliculata before me but slightly, chiefly in the sculpture of the mesopleura, in two pits on the vertex, and in the fact that the petiole appears a little longer. Whether these are individual or persistent distinctions, it will take additional specimens to decide. If not a morphologically distinct species, it doubtless represents a geographical color form.

Ampulex (Rhinopsis) ferruginea 11. sp.
of. Entirely ferruginous except the abdomen beyond the petiole, which is piceons and polished, and the petiole which is testaceous. Wings hyaline, a fuscous area abruptly delineated hasally across the wing leneath the stigma, but gradually disappearing before the apex; a small cloud also at the apex of the sulbmedian cell. Length 8 mm .

Head roundly but strongly contracted behind the eyes, the occiput not distinctly margined, but inferiorly with a weak tubercle or suggestion of the termination of a carina (canaliculata has these and the bordering carina of the occiput a little stronger) ; inner margins of the eyes very slightly divergent toward clypeus; clypeus strongly convex medially, depressed beneath each antenna, a trace of a median carina visible on its crest only at extreme aper. where it becomes a short apical mucronate tooth, the apical border otherwise rounded; surface of clypeus minutely pubescent, and with some longer hairs apically, the median convex part crossed by a faint transverse impression (strong in canaliculatu) ; mandibles slender, attached normally beneath the cyes, with a very short malar space; dis-
tance from foranen magntum to buceal orifice two-thirds the length of the third antemal segment; distance between ocelli one-half of the minimum distance between them and compound eyes; minimum width between eyes four-fifths the length of segment 3 of antema; this about six times longer than the pedicel, two and one-half times longer than the scape: segments 4 and 5 about equal to each other and to the scape, the two together about one-eighth shorter than segment three; front with a round lobe overlying the base of each antenna. leading above into a very short and weak frontal carina; no median carina: front and vertex opaque, with evenly seattered fine punctures: a pit behind each posterior ocelluts (absent in canaliculata).

Pronotum longer than wide, the anterior half divided by a median sulcus into a right and left rotmded ridge, the dorsal surface with weakly indicated suggestion of fine rugosity, anteriorly this is only on the stmmits of the ridges, but covers the entire dorsal surface posteriorly; lateral surfaces smooth and impunctate. Mesonotum with sharply defined parallel parapsidal furrows, extending from anterior to posterior margins, with weakly defined lateral furrows on the posterior half, and with two short furrows between the parapsidals on the anterior margin; surface smooth, and chiefly between the parapsidal furrows with minute ill-defined punctulation, regularly but not cosely distributed, just discernible at x 35 magnification ; a pit-like depression near the postero-lateral angles, which are in turn somewhat elevated, slightly hood-like. Scutellum with deep lateral foveae, its dise sculptured like the middle section of the mesonotum; postscutellum impunctate: mesopleura obsoletely rugulose, in places somewhat reticulate, but without distinct rows of punctures as in canaliculata. Epionemial carina sharp: pleura separated from the mesosternum by a poorly defined depressed line, scarcely a definite sulens. Mesostermum smooth: at $x 35$ seattered setigerons punctulation is evident, and a background of minute shagrecming. In this species and in canaliculata the mesosternum betwern the middle coxae is convexly ronnded. not flattened and not forming a strong ridge or median line ; posteriorly the ordinary furetula is replaced ly a downward projecting U-shaped translucent lamina, which comects one hind cosa with the other. Posterolateral area of propodemm with a small erect tooth; forsal stirface of propodeum horizontal, at right angles to the vertical posterior face; dorsal strface with a weak merlian carina, and four lateral carinate on each side, the fometh bonnding the top of the lateral face; the first lateral pair, distant at the hase from the median, approach it and finally disappear before uniting
with it apically, setting off between them a triangular area which is darker in color than the rest of the body: the next two pairs of lateral carinae closer to each other that to the first pair. and the second and third a little closer than the third to the fourth ; the median triangle radially striated at base, transversely at apex, the interval between carinae 1 and 2 transversely striated, that between 2 and 3 as likewise 3 and + transversely striate but the striae sufficiently short and separated to form rectangular meshes; the lateral faces obsoletely rugulose, contrasting with the smooth metaplenra below them; the posterior face slightly ronnded, with a very weak vertical merlian carina, and obsoletely transversely wrinkled, but not above.

The forewings have entirely lost all trace of the first transverse cubital vein. The mited first and second submarginal cells extend about half way from the tip of the median cell to the wing apex. 'The marginal cell is long and pointed, its extreme tip slightly removed from the margin, forming a very small appendiculate cell. The second transverse cubitus is transverse. The first and second sections of the radins are of about equal length, longer than the third, which is about equal to the second transverse cubital vein. The third transverse cubitus curves obliquely ontward to the cubital vein. The third discoidal cell is elongate gradually and evenly narrowed until just before the apex the terminating curve becomes pronounced; this by reason of the unusual fact that the first section of the subdiscoidal vein ( $m$ of Comstock-Needham system) is entirely continuous with the second recurrent, there being no trace whatsoever of the second section of the subdiscoidal (longitudinal $\mathrm{M}_{2}$ of the Comstock-Needham system). This arrangement forruginea has in common with 1 . canaliculata. The hind wing does not differ materially from Koll's figure of 1. compressa, except that the apical part of the anal vein, the part beyond the stubmedian cell, is wanting. Femors slender, thickest at the basal third and evenly tapered to the apex: metatarsus . 55 of length of tibiae: tarsal segments in proportion of : $9: t: 1.5: 1: 2.2$; ultimate segment, as usual, inserted near base of penultimate; claw with an olsique median tooth on the inner margin.

Petiole (measured from apex of hinging nodules at base to where it suddenly enlarges at base of first tergite) as long as the second tarsal segment. Abdomen impunctate, polished and shining, the second tergite little wider than the apex of the first. the third tergite about one-third the length of the second, the apical ones narrowly exposed.

Texas: Liberty, 1 ô. March 18, 1908 (E. G. Tucker). Holotype in the United States National Museum.

